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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-16-01 **Date:** 11/06/2018

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.

Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045

Customer's Reference : EE(Project)YnkZone/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-2018

Sample ID No : 2018-05-16-01 /02

Customer ID : Flooring Concrete-Coping Concrete (Ward No.08, Kodigehalli)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 11/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Flooring Concrete-Coping Concrete (Ward No.08, Kodigehalli)	M20	14/05/2018	11/06/2018	149.57 X 150.44 X 150.63	22501	8.143	510.8	22.7	23.0
2	Flooring Concrete-Coping Concrete (Ward No.08, Kodigehalli)	M20	14/05/2018	11/06/2018	150.74 X 150.44 X 149.67	22677	8.178	530.6	23.4	
3	Flooring Concrete-Coping Concrete (Ward No.08, Kodigehalli)	M20	14/05/2018	11/06/2018	150.27 X 149.63 X 150.74	22485	8.207	512.7	22.8	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-01-01-01 Date: 03/01/2018

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.

Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045

Customer's Reference : EE(Project)YnkZone/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-2018

Sample ID No : 2018-01-01-01 /01

Customer ID : PCC (Ward No.08, Kodigehalli)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 03/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC (Ward No.08, Kodigehalli)	M15	27/12/2017	03/01/2018	151.22 X 150.07 X 150.07	22693	8.204	290.5	12.8	12.4
2	PCC (Ward No.08, Kodigehalli)	M15	27/12/2017	03/01/2018	150.57 X 150.69 X 150.47	22689	8.194	270.0	11.9	
3	PCC (Ward No.08, Kodigehalli)	M15	27/12/2017	03/01/2018	150.98 X 150.74 X 150.69	22759	8.155	282.2	12.4	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-12-18-02 **Date:** 21-12-17
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.
Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045
Customer's Reference : EE(Project)YnkZone/WO/75/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-12-17
Sample ID No : 2017-12-18-02 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 19-12-17

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.15	—
2	Finess by Air permeablity method (m ² /kg,Min)	285.5	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-12-18-02 Date: 16-01-18
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.
Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045
Customer's Reference : EE(Project)YnkZone/WO/75/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-12-17
Sample ID No : 2017-12-18-02 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 19-12-17
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-18-02 **Date:** 21-12-17

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.

Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045

Customer's Reference : EE(Project)YnkZone/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 18-12-17

Sample ID No : 2017-12-18-02 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 18-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	322	322	2.1	97.9	90-100
3	20 mm	5643	5965	39.8	60.2	30-70
4	10 mm	4663	10628	70.9	29.1	10-35
5	4.75 mm	4025	14653	97.7	2.3	0-5
6	Pan	347	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-18-02

Date: 21-12-17

Sample ID No : 2017-12-18-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.55	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.21	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-18-02 Date: 20-12-17

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.

Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045

Customer Reference : EE(Project)YnkZone/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-17

Sample ID No : 2017-12-18-02 /02(b)

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 18-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2544	2787	55.7	44.3	25-55
4	4.75 mm	1768	4555	91.1	8.9	0-10
5	Pan	445	5000	100	0	-

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-12-18-02

Date: 20-12-17

Sample ID No : 2017-12-18-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.47	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.2	—
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-01-01
 Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
 Address : Project Sub Division, BBMP, Bangalore.
 Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.
 Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045
 Customer's Reference : EE(Project)YnkZone/WO/75/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 01-01-2018
 Sample ID No : 2018-01-01-01 /02
 Customer ID : PCC (Ward No.08, Kodigehalli)
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M15 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
 Date of test : 24/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC (Ward No.08, Kodigehalli)	M15	27/12/2017	24/01/2018	150.66 X 151.47 X 149.87	22820	8.169	424.5	18.6	18.3
2	PCC (Ward No.08, Kodigehalli)	M15	27/12/2017	24/01/2018	151.27 X 150.63 X 149.78	22786	8.174	407.9	17.9	
3	PCC (Ward No.08, Kodigehalli)	M15	27/12/2017	24/01/2018	150.46 X 151.66 X 150.24	22819	8.154	419.9	18.4	

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-12-18-02 Date: 20-12-17

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.

Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045

Customer's Reference : EE(Project)YnkZone/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-17

Sample ID No : 2017-12-18-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 18-12-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	144	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	175	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	179	584	58.4	41.6	15-34	35-59	60-79	80-100
6	300 micron	185	769	76.9	23.1	5-20	8-30	12-40	15-50
7	150 micron	132	901	90.1	9.9	0-10	0-10	0-10	0-15
8	Pan	99	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-12-18-02

Date: 20-12-17

Sample ID No : 2017-12-18-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2017-12-18-02 Date: 20-12-17
 Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
 Address : Project Sub Division, BBMP, Bangalore.
 Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara.
 : B) Construction of Hospital building at Ward No.07, Byatarayanapura. C)
 : Construction of HOSPITAL Building at Ward No.08, Kodigehalli.
 Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna
 Palya, Arabic Collager Post, Bangalore-560045
 Customer's Reference : EE(Project)YnkZone/WO/75/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 18-12-17
 Sample ID No : 2017-12-18-01 /04
 Sample Type : Sunvik
 Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
 Date of test: : 19-12-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	568	685	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.682	592	702	19.5%	Satisfactory	Satisfactory
3	Sunvik	Fe500	20	2.578	604	725	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	25	3.775	616	726	19.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate *



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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2018-02-05-02 **Date:** 08-02-18

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Package-3 A) Construction of Hospital building at ward No.11, Kuvempunagara. B) Construction of Hospital building at Ward No.07, Byatarayanapura. C) Construction of HOSPITAL Building at Ward No.08, Kodigehalli.

Agency : Sri.K.Gopireddy, #3, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic Collager Post, Bangalore-560045

Customer's Reference : EE(Project)YnkZone/WO/75/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-02-18

Sample ID No : 2018-02-05-02 /01

Sample Type/Size : Solid concrete blocks of size (400X200X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 05-02-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	402	200	202	16241	32.510	2001.7	1986.0	Not less than 1800Kg/m ³
2	403	203	203	16607	32.470	1955.2		
3	403	201	201	16282	32.580	2001.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.470	32.380	3.37	3.90	Shall not be more than 10% by mass
2	33.560	32.320	3.84		
3	33.540	32.100	4.49		

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R. K. H. H.

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Certificate No.: TC- 5548

Lab ID : CP-2018-02-05-02

Date: 08-02-18

Sample ID No : 2018-02-05-02 /01

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	201	
3	402	203	203	
4	401	201	201	
5	402	203	203	
6	404	201	201	
7	401	203	203	
8	403	201	201	
9	402	203	203	
10	401	202	201	
11	402	201	203	
12	403	203	202	
13	401	201	201	
14	402	203	203	
15	402	202	203	
16	401	103	202	
17	402	200	201	
18	403	203	203	
19	403	201	201	
20	401	201	203	
Average of 20	402	197	202	

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Signature
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Certificate No.: TC- 5548

Lab ID : CP-2018-02-05-02

Date: 08-02-18

Sample ID No : 2018-02-05-02 /01

COMPRESSIVE STRENGTH:

SL No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	402	202	81204	428.7	5.3	5.5
2	401	201	80601	444.7	5.5	
3	402	203	81606	458.1	5.6	
4	401	201	80601	439.7	5.5	
5	402	203	81606	461.5	5.7	
6	404	201	81204	448.1	5.5	
7	401	203	81403	472.0	5.8	
8	403	201	81003	448.5	5.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

Note:

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R KARTHIK RECHAN
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Quality Manager

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